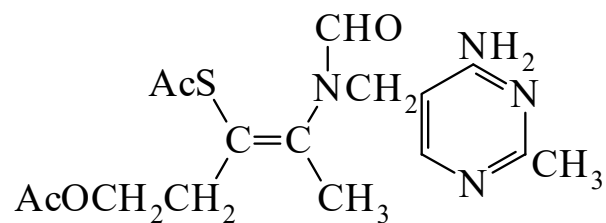




>>Entry Name: Acetiamine, INN

Synonym(s): *S*-[1-[2-(Acetyloxy)ethyl]-2-[[[(4-amino-2-methyl-5-pyrimidinyl)methyl]formylamino]-1-propenyl]ethanethiolate, 9Cl. *S-N*-[(4-Amino-2-methyl-5-pyrimidinyl)methyl]-*N*-(4-hydroxy-2-mercapto-1-methyl-1-butenyl)formamide *O*-acetate thioacetate, 8Cl. Acethiamine. Diacetyl thiamine. Nevriton. Thianeuron. DAT



CAS Registry Number: 299-89-8

Related CAS Registry Numbers(s): 107814-81-3

Molecular Formula: C₁₆H₂₂N₄O₄S

Molecular Weight: 366.44

Accurate Mass: 366.136176

Percentage Composition: C 52.44%; H 6.05%; N 15.29%; O 17.46%; S 8.75%

General Statement: Thiamine derivative

Use/Importance: Analgesic (Vit. B₁ source)

Other Data: Component of Algo-Nevriton

>>Variant: (Z)-form

CAS Registry Number: 123293-43-6

Molecular Formula: C₁₆H₂₂N₄O₄S

Molecular Weight: 366.44

Accurate Mass: 366.136176

Percentage Composition: C 52.44%; H 6.05%; N 15.29%; O 17.46%; S 8.75%

Physical Description: Prisms (C₆H₆/petrol)

Melting Point: Mp 122-123° (dec.)

Other Data: λ_{max} 258 nm

References:

Takamizawa, A. *et al.*, *Bull. Chem. Soc. Jpn.*, 1953, **23**, 705, (*synth*)

Blum, K.U. *et al.*, *Pharmacol. Clin.*, 1970, **2**, 177, (*pharmacol*)

Jambut-Absil, A.C. *et al.*, *Arzneim.-Forsch.*, 1987, **37**, 772, (*pharmacol*)

Shin, W. *et al.*, *Acta Cryst. C*, 1989, **45**, 1186, (*cryst struct*)

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